

Layer (type)	Output Shape	Param #
input_1 (InputLayer)	(None, 1)	0
lambda_1 (Lambda)	(None, 512)	0
dense_1 (Dense)	(None, 256)	131328
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 64)	16448
dropout_2 (Dropout)	(None, 64)	0
dense_3 (Dense)	(None, 1)	65

Total params: 147,841  
 Trainable params: 147,841  
 Non-trainable params: 0

2019-06-04 11:11:51.487007: I tensorflow/core/platform/cpu\_feature\_guard.cc:141] Your CPU supports instructions that this TensorFlow binary was not compiled to use: AVX2

Train on 40000 samples, validate on 10000 samples

Epoch 1/20

40000/40000 [=====] - 101s 3ms/step - loss: 0.3799 - acc: 0.8329 - val\_loss: 0.3330 - val\_acc: 0.8560

Epoch 2/20

40000/40000 [=====] - 159s 4ms/step - loss: 0.3385 - acc: 0.8518 - val\_loss: 0.3244 - val\_acc: 0.8605

Epoch 3/20

40000/40000 [=====] - 157s 4ms/step - loss: 0.3291 - acc: 0.8575 - val\_loss: 0.3215 - val\_acc: 0.8583

Epoch 4/20

40000/40000 [=====] - 176s 4ms/step - loss: 0.3223 - acc: 0.8628 - val\_loss: 0.3199 - val\_acc: 0.8595

Epoch 5/20

40000/40000 [=====] - 157s 4ms/step - loss: 0.3170 - acc: 0.8650 - val\_loss: 0.3230 - val\_acc: 0.8615

Epoch 6/20

40000/40000 [=====] - 162s 4ms/step - loss: 0.3125 - acc: 0.8664 - val\_loss: 0.3089 - val\_acc: 0.8671

Epoch 7/20

40000/40000 [=====] - 96s 2ms/step - loss: 0.3052 - acc: 0.8702 - val\_loss: 0.3085 - val\_acc: 0.8688

Epoch 8/20

40000/40000 [=====] - 82s 2ms/step - loss: 0.3010 - acc: 0.8719 - val\_loss: 0.3201 - val\_acc: 0.8602

Epoch 9/20

40000/40000 [=====] - 85s 2ms/step - loss: 0.2965 - acc: 0.8738 - val\_loss: 0.3075 - val\_acc: 0.8691

Epoch 10/20

40000/40000 [=====] - 118s 3ms/step - loss: 0.2943 - acc: 0.8745 - val\_loss: 0.3161 - val\_acc: 0.8642

Epoch 11/20

40000/40000 [=====] - 156s 4ms/step - loss: 0.2903 - acc: 0.8776 - val\_loss: 0.3107 - val\_acc: 0.8661

Epoch 12/20

40000/40000 [=====] - 156s 4ms/step - loss: 0.2854 - acc: 0.8799 - val\_loss: 0.3066 - val\_acc: 0.8687

Epoch 13/20

40000/40000 [=====] - 119s 3ms/step - loss: 0.2810 - acc: 0.8824 - val\_loss: 0.3132 - val\_acc: 0.8642

Epoch 14/20

40000/40000 [=====] - 85s 2ms/step - loss: 0.2765 - acc: 0.8834 - val\_loss: 0.3115 - val\_acc: 0.8667

Epoch 15/20

40000/40000 [=====] - 80s 2ms/step - loss: 0.2737 - acc: 0.8846 - val\_loss: 0.3181 - val\_acc: 0.8640

Epoch 16/20

40000/40000 [=====] - 85s 2ms/step - loss: 0.2677 - acc: 0.8903 - val\_loss: 0.3091 - val\_acc: 0.8655

Epoch 17/20

40000/40000 [=====] - 80s 2ms/step - loss: 0.2644 - acc: 0.8903 - val\_loss: 0.3180 - val\_acc: 0.8668

Epoch 18/20

40000/40000 [=====] - 85s 2ms/step - loss: 0.2600 - acc: 0.8907 - val\_loss: 0.3139 - val\_acc: 0.8660

Epoch 19/20

40000/40000 [=====] - 81s 2ms/step - loss: 0.2546 - acc: 0.8931 - val\_loss: 0.3146 - val\_acc: 0.8694

Epoch 20/20

40000/40000 [=====] - 83s 2ms/step - loss: 0.2531 - acc: 0.8957 - val\_loss: 0.3192 - val\_acc: 0.8655

